

WHAT IS CLAIMED IS

- 1. A movable mounting bed apparatus of a spring forming machine comprising a mounting bed, a mounting bed base, a sliding rail base, a shaft coupling, a ball screw, a screw seat, four sliding seats, two linear sliding rails, a wire feeding apparatus supporting base and a foundation, wherein:**

on the rim of the mounting bed has six rim protrusion portions; the bottom of the mounting bed is mounted to the mounting bed base; the mounting bed is provided on the center thereof with a central hole for receiving the front end of the wire feeding apparatus supporting base;

the mounting bed base has a bottom protrusion portion having a screw hole engaged with the ball screw; an end of the screw hole is embedded with the screw seat; Both sides of the bottom of the mounting bed base respectively have a groove each respectively mounted with two sliding seats;

the sliding rail base has a protrusion portion, both sides of which are respectively mounted with a linear sliding rail; the bottom of the sliding rail base is mounted to the foundation;

an end of the shaft coupling is mounted to the servomotor, and the other end thereof is mounted to the ball screw;

an end of the ball screw is mounted to the shaft coupling, and the other end thereof is first penetrated through the screw seat embedded into an end of the screw hole of the bottom protrusion portion of the mounting bed base and then is engaged with the screw hole;

the screw seat is embedded into an end of the screw hole of the bottom protrusion portion of the mounting bed base for supporting the ball screw;

the foundation has a recess for receiving the servomotor; both sides of the recess respectively have a supporting block for supporting the wire feeding apparatus supporting base that supports a wire feeding apparatus; the foundation is mounted with the sliding rail base;

the tops of the four sliding seats are mounted to the grooves of both sides of the bottom of the mounting bed base, and the bottoms thereof are engaged with the linear sliding rails;

the bottoms of the two linear sliding rails are mounted to both sides of a protrusion portion of the sliding rail base, and the tops thereof are engaged with the sliding seats; and

the wire feeding apparatus supporting base is positioned on the supporting block; the front end thereof passes through the central hole of the mounting bed.

2. The movable mounting bed apparatus of a spring forming machine as claimed in Claim 1, the transmission way of the ball screw being replaced with an oil cylinder.
3. The movable mounting bed apparatus of a spring forming machine as claimed in Claim 1, the transmission way of the ball screw being replaced with a gas cylinder.